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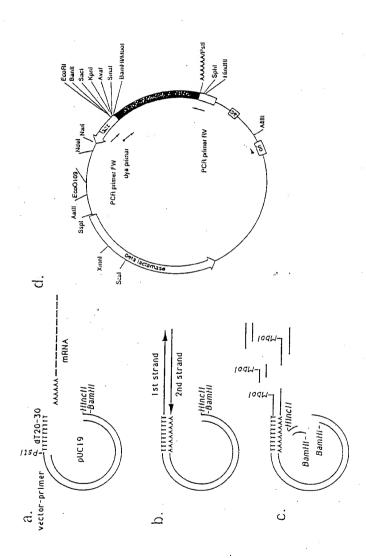


Fig. 2

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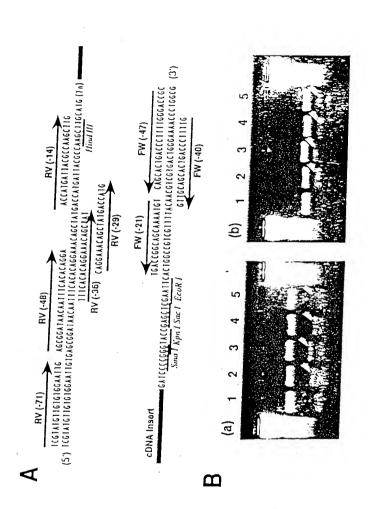


Fig. 3

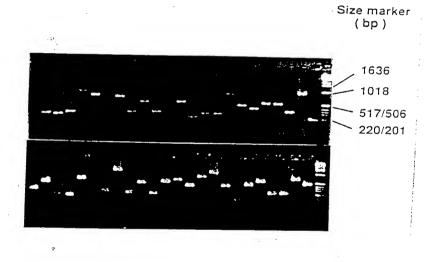


Fig. 4

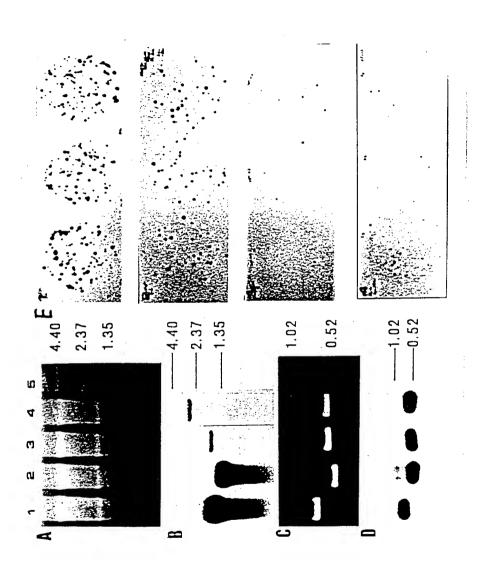


Fig. 4

probe No.	1	2	3	4
gene	Elongation factor	c1-anticypsin	HnRNP core protein A1	Inter-a-trypsin inhibitor
(a) Band intensity of Northern blot(cpm)	687	423	10	15
(b)Band intensity of control blot(cpm)	133	177	100	127
(c)Normalized signal(a)/(b)x10	52	24	1	1.2
(d)Positive signals on colony blot	307	119	7	9
e)Relative epresentation	44	17	1	1.3

Appearance	1 1	frequencies of various cDNAs in the 3'-directed HepG2	rected Hep62	CDNA Tibrary	a r.v.
Group	Q	Gene	A Hin 982 (%)	B. 6000 60711	
	a15 c321 Tra lb030	al5 Elongation factor - 1Aac321 Translationally restricted tumor protein (10030 a-1-antitrypsin		307 (3.5)	"in 26,400 (%) NT NT
	hm01b02 c13a04 hm02d02 tb042		8 (0.8) 6 (0.6) 4 (0.4) 3 (0.3)	119 (1.4) 62 (0.7) 27 (0.3) 29 (0.3)	N N N N
	s155	unknown	2 (0.2)	7 (0.1)	Z
	s159 s639	unknown unknown	~ ~	2 2	5 (0.02)
Ξ	s635	unknown	-	· — ·	3 (0.01)
=	s170 s154	unknown unknown		0 0	2 (0.01)
	s167	unknown	_	0	1 (0,004
	s645	unknown	, ,	0	1 (0.004
	5647	unknown	- +	0	1 (0.004
	s632	unknown		0 (0 (<0.00
			-	0	0 (<0.00

Fig. 6

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100.000	7000	-	TGGACTGTGGATACCTATCT	TO CONT. CTOCOTOR TO A CA	:	3	5	007	7,000	-	-
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ps 001116	177 I wo		SCCCCTAACACGAGGAACTC	TAATITCCCACTCCCGTAAC	5	-	115	300	2		, .
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	pm0609	_	TIGGTGGATTGTAACTTTTG	DISCOSIONIS	2	£	32	78	201	-	-
	pm1351	_	TAAGASCASCASCASCASCASCASCASCASCASCASCASCASCA	OGC I GAACAI I CACI CI I I G	Ç	6	6		500	-	-
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1000		-	AAGGIGTACAGGATATTTGCAGA	TGCAATAGCCCAATCTCATT	2		1			•	-
	pm1439	-	CCAAAGACCTCCGTTGAACA	TITOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGO	÷ .	2	S	200	200	-	_
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Fig. 9

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GGAGGGAGATATAGATTGT	MCTATAGGTGTGACCAGTT	TAATGCCAGTGAATGTTCCCT	ATCCTGAGATACATCTO	GATCCGATGGGAGTGTAAAT	TGGAATTGACATTGACATT	TATCAAGCTGAAATCTC.C	TCCAATGAAGAAGGTGTTA	GTCTGTCAACCCAACC			TO	TCCLTTLLCCAGGCAG	GECATION	CATCHEROLOGIC	CAGGGACTCCACTTC	TIMOGAMATITAGOTTAGO	TOCATTICOTTEC	CAST CAST CAST CONTRACT CONTRA	GGATTCTATTCCTCT	SCATTAAACAGCAAACAG	AGATGCTAACATTAGGGATTA	CCAGACTACACCTCATOCA	ACCANGICACIOCITICA A ATA	AAGAATTGTTTACTGGATT	ACTACCCCTGAGATATTAGTT	ATACCACITCCGCTGTCACG	GCACCAAGAAGCAGTTCCAG	GATCICAGITICIGGGTTram	AlTCITGIGIGCIGCTICC	AACCIGITTAGGGGATCTT	TGTTGGTTCACCATTGAGAC	GAATGTCATCCAAGACGTAG	TITATECCAGGAAGCACAC	ACTIAAAGTAGCTTTAAC	CCCCAGTTAAAAATTATTAT	TGCAGAGTGATTTCGAGAG	ATCCOTCTGTCTATTCACAC	GCCTGCATCTGTGTTGAGTS	113000000000000000000000000000000000000
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Fig. 11

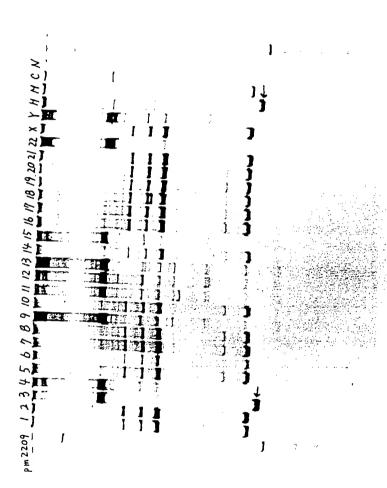


Fig. 12

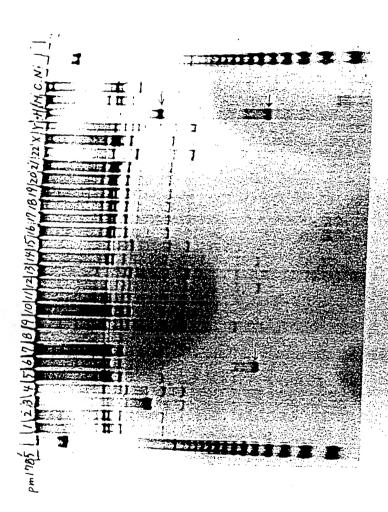


Fig. 13

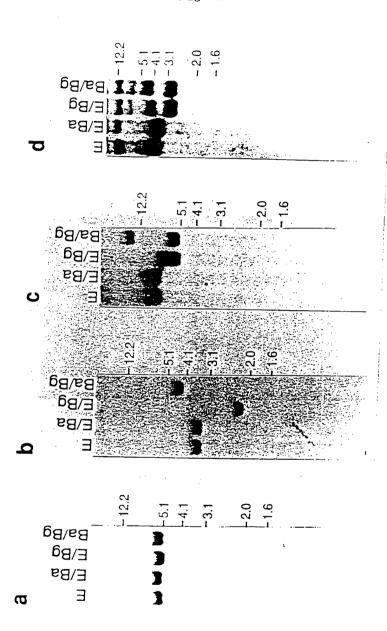


Fig. 14

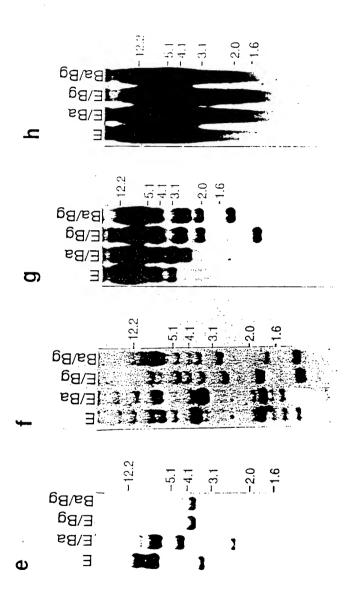




Fig. 15

Hybrid cells used for Southern hybridization

	man Omosome N	Parent	Intact cell chromosome (%)	Translocate chromosome (%):
A9(neo-!)-4	1	A 9	100 (0)	0
A 9(neo-2)-1	2	A 9	93 (8)	0
GM10253	3	CHO	(0) (0)	0
GM 10115	4	CHO	100 (0)	0
A 9 (neo-5)-4	5	.A 9	40 (0)	90
A9(neo-6)-3	6	A 9	100 (60)	0
A9(neo-7)-2	7	A 9	100 (89)	0
A9(neo-8)-1	8	A 9	91 (82)	0
GM10611	9	CHO	79 (5)	1 1
A9(neo-10)-3	0 1	A 9	94 (6)	75
A9(neo-11)-1	1 1	A 9	24 (0)	76
GM 1.0927A *	1 1-	CHO	96 (21)	4
A 9 (neo-12)-4	12	A 9	0 (0)	001
GM10868 *	12	CHO	82 (6)	0
GM 10898	13	CHO	82 (0)	0 1
GM 10479	14	3 T 6	76 (29)	0
A9(neo-15)-2	15	A 9	9 (0)	78
GM11418 *	15	СНО	62 (0)	100
GM 10567	16	A 9	69 (0)	0
GM 10498	17	LTMK	30 (10)	0
A 9(neo-18)-5	8 1	A 9	100 (66)	0
49(neo-19)-1	19	A 9	92 (23)	8
A 9(neo-20)-3	20	A 9	81 (5)	17
GM 0 8 8 5 4	2!	A 9	81 (24)	0
M 10027	2 2	CHO	93 (0) 1	00
M 10324	χ	A 9	(01) 18	0
M06317	Υ	CHWILO	3 91 (0)	9



Fig. 16



Chromosome

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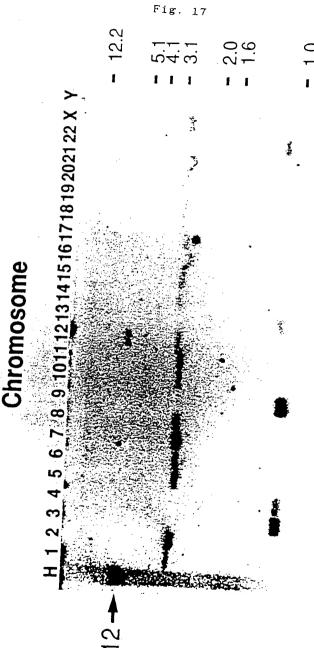


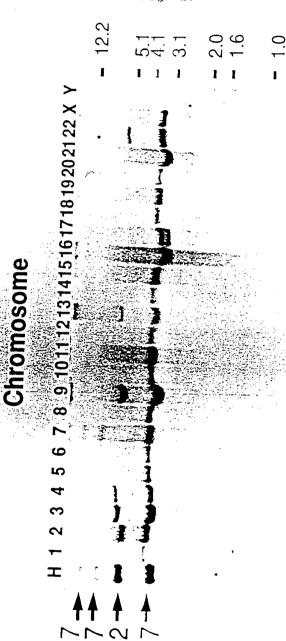
Fig. 18



Chromosome



Fig. 19



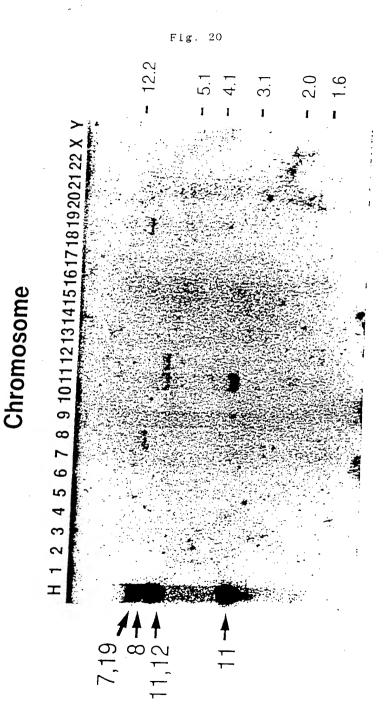


Fig. 21

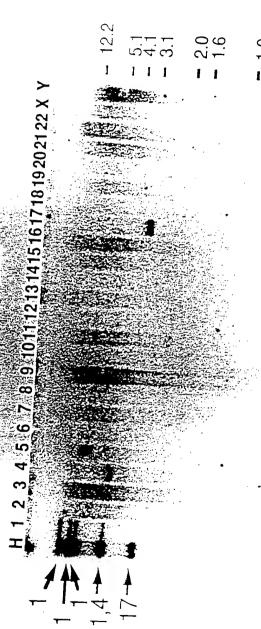
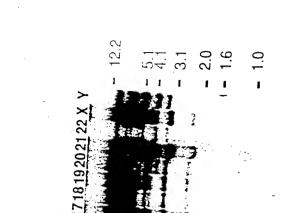


Fig. 22



Chromosome

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Fig. 23

Chromosomal mapping of each GS by Southern blot technique

with l	rs of ba	ole ch	romo	ea some	s		Chromosomes assigned	Вас	ekground
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d1510			1	1	1	i	1 I 20	1	1 .
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hm0 to	co9 GS00042	23 157	ā	i	i	i	i.r L	0	0
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hm018	f0 <i>5</i> GSG0006	6 454	i	1	1	ī	19,22	0	0
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	402 CS000535		2	2	2	1	2,	0	0
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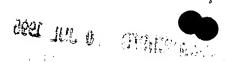
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tw1-33	junk	352	2	2	2	2	1.	ō	ā.
:w1-39	GS000153		2	2	2	2	17.	o	0
tw1-70	G3000061	441	1	I	2	t	II,	ō	ō
tw1-80	junk	453	2	2	ī	2	9,17	2	2
(w1-37	GS000158	316	2	2	2	2 .	7,	ō	o o
Three band			_	-	-	-	′,	J	J
40506	GS000080	417	3	3	3	1	Ι,	0	0
h m 0 5 b 0 7	fiunk	336	2	3	3	3	۰. ۶.	0	
	GS000209	267	2	2	2	1	3,17,19	į.	. O. I
s129	GS000107	378	3	3	3	3	n.d.	1	ı I
s 1 7 3	GS000357	146	1	2	2	3	2.	0	0
s17a10	GS000294	131	3	3	3	3	2,13,22	ī	
s 3 0 8	GS000412	633	2	2	2	3 .	2,13,22 XX	1	1
s 4 0 I	GS000224	249	2	3	3	3	6,6,	0	1
s 6 5 4	GS000045	491	3	3	3	3	·	0	
1.41-32	C3000208	267	3	3	3	3	1.22,	_	0
Four band g		237	,	,	,	٠	13.	4	0
c12g07	GS000154	320	4	4	2	3 .	5 14	C	0
c13108	GS000055	508	3	3	4	4	5, 14, 2,7,7,17	0	0
c13c04		#376	۵	3	3	3	2,7,7,17 n.d.	1 0	2
c13c09	CS000302	195	4	2	4	4		7	2
\$136	G2000160	315	4	4	4	4	2,17,		2
5150	GS000004		4	4	4	2	4,X,	2	1
s479		293	4	4	2	2	4,4,8,20	3	t o
oup with 5				-	- .	<u> -</u>	7,8,11,11,12,19	U	0
'cl 2f08		217	5	5	5	2	27011	, .	
heQt		374	12	12			2,7.9,14,	2	0
hdlO		3/4 36l	4	4	15 4	13	1,2,6,	2 2	20
helO	-	173	6	2			n.d.	12	6
			9		3	3	6,3,9,19,21,	3	3
		176 215		7	5	5	X	9	8
		711	8	10	5	5	n.d.	12	1 2
111101502	14111	• 1 1	7	G	6	4	10,14,20,	14	G



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	of bai				es		Chromosomes assigned	Bac	kground
Clone	S	equenc lengt	ce h E	E/B:	E/3	3 a / B g		Mouse	Chinese hamster
hm02f09	GS000273	442	3	7	7	· 5	3.3,6,11,13,14,15,16	0	0
hm05a01	CS000096	373	5	G	4	G	2.3,17,	3	3
hm05a04	C3000236	#239	6	á	6	7	a.d.	8	5
kmb0 l	junk	350	3	5	5	5	13,	1.4	7
s11f06	C2000318	170	6	á	6	4	1,2,2,3,4,6,13,15,	0	1
s14f01	GS000407		12	11	10	9 .	1,6,9,13,	5	3
s l 73	G3000094	397	5	4	6.	3	1,1,1,1,4,17	ō	ā
\$255	C\$000323	167	10	12	1.1	14	. 18.	9	5
s341	junk	494	9	9	3	á	n.d.	1.5	3
5406	C2000113	364	6	7	5	4	2,7,8,13,20,20	4	1
tw1-46	iunk	593	9	10	10	10	1,1,2,2,5,11,X,	3	ŝ
tw1-63	junk	203	8	10	10	12	3.4,	17	11
ands no de									
c13g02	C2000340	157	0	a	0	o	-	-	
hm0le10	junk	232	0	0	٥	0	•	-	
hm02d11	GS000274	196	0	0	0	0	-	-	
s 3 2 3	GS000273	194	O	0	0	0	-	-	-
s 3 5 9	C2000Taa	279	0	0	0	0	-	-	
s 5 l l	junk.	233	0	0	0	0			-
2645	GS000012	#734	0	0	0	0	-	٠.	-
s 64.7	GS000105	360	0	o	ō	a			
\$65!	junk	540	٥	a	ō	ō	_	_	_